

09/05/05, 640

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L1	0	713/151-153.CCLS	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/21 18:43
L2	0	713/151,153.CCLS	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/21 18:44
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L4	3	(713/151-153)".CCLS"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/21 18:46
L5	738	(713/151-153).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/21 18:46
L6	6857	(713/200-202).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/21 18:47
L7	175	(713/188).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/21 18:47
L8	38	(705/79).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/21 18:48

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L9	37545	(370/341-430).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/21 18:48
L10	14898	(709/225-244).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/21 18:49
L11	1435	(714/38).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/21 18:49
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L20	19	PHILLIPS.INV. AND CYNTHIA	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/21 18:55
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Relevance scale **1** [Technique for automatically correcting words in text](#)

Karen Kukich

December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4Full text available:  [pdf\(6.23 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Research aimed at correcting words in text has focused on three progressively more difficult problems: (1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent word correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

2 [Fully persistent lists with catenation](#)

James R. Driscoll, Daniel D. K. Sleator, Robert E. Tarjan

March 1991 **Proceedings of the second annual ACM-SIAM symposium on Discrete algorithms**Full text available:  [pdf\(1.12 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**3** [Routing: ANODR: anonymous on demand routing with untraceable routes for mobile ad-hoc networks](#)

Jiejun Kong, Xiaoyan Hong

June 2003 **Proceedings of the 4th ACM international symposium on Mobile ad hoc networking & computing**Full text available:  [pdf\(236.79 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In hostile environments, the enemy can launch traffic analysis against interceptable routing information embedded in routing messages and data packets. Allowing adversaries to trace network routes and infer the motion pattern of nodes at the end of those routes may pose a

serious threat to covert operations. We propose ANODR, an anonymous on-demand routing protocol for mobile ad hoc networks deployed in hostile environments. We address two closely related problems: For *route anonymity*, AN ...

Keywords: anonymity, broadcast, mobile ad-hoc network, on-demand routing, pseudonymity, trapdoor, untraceability

4 Special section: Reasoning about structure, behavior and function

B. Chandrasekaran, Rob Milne

July 1985 **ACM SIGART Bulletin**, Issue 93

Full text available:  pdf(5.13 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

The last several years' of work in the area of knowledge-based systems has resulted in a deeper understanding of the potentials of the current generation of ideas, but more importantly, also about their limitations and the need for research both in a broader framework as well as in new directions. The following ideas seem to us to be worthy of note in this connection.

5 Computational geometry: a retrospective

Bernard Chazelle

May 1994 **Proceedings of the twenty-sixth annual ACM symposium on Theory of computing**

Full text available:  pdf(2.20 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

6 Distributed packet switching in arbitrary networks

Yuval Rabani, Éva Tardos

July 1996 **Proceedings of the twenty-eighth annual ACM symposium on Theory of computing**

Full text available:  pdf(1.38 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 A composable framework for secure multi-modal access to internet services from Post-PC devices

Steven J. Ross, Jason L. Hill, Michael Y. Chen, Anthony D. Joseph, David E. Culler, Eric A. Brewer

October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Full text available:  pdf(340.33 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

The Post-PC revolution is bringing information access to a wide range of devices beyond the desktop, such as public kiosks, and mobile devices like cellular telephones, PDAs, and voice based vehicle telematics. However, existing deployed Internet services are geared toward the secure rich interface of private desktop computers. We propose the use of an infrastructure-based secure proxy architecture to bridge the gap between the capabilities of Post-PC devices and the requirements of Internet ser ...

Keywords: internet, middleware, post-PC, security, transcoding

8 A software engineering perspective on algorithmics

Karsten Weihe

March 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 1

Full text available:  pdf(1.62 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

An algorithm component is an implementation of an algorithm which is not intended to be a stand-alone module, but to perform a specific task within a large software package or even within several distinct software packages. Therefore, the design of algorithm components must also incorporate software-engineering aspects. A key design goal is adaptability. This goal is important for maintenance throughout a project, prototypical development, and reuse in new, unforeseen contexts ...

Keywords: algorithm engineering

9 On randomization in sequential and distributed algorithms

Rajiv Gupta, Scott A. Smolka, Shaji Bhaskar

March 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 1Full text available:  pdf(8.01 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Probabilistic, or randomized, algorithms are fast becoming as commonplace as conventional deterministic algorithms. This survey presents five techniques that have been widely used in the design of randomized algorithms. These techniques are illustrated using 12 randomized algorithms—both sequential and distributed—that span a wide range of applications, including: primality testing (a classical problem in number theory), interactive probabilistic proofs ...

Keywords: Byzantine agreement, CSP, analysis of algorithms, computational complexity, dining philosophers problem, distributed algorithms, graph isomorphism, hashing, interactive probabilistic proof systems, leader election, message routing, nearest-neighbors problem, perfect hashing, primality testing, probabilistic techniques, randomized or probabilistic algorithms, randomized quicksort, sequential algorithms, transitive tournaments, universal hashing

10 Technical reports

SIGACT News Staff

January 1980 **ACM SIGACT News**, Volume 12 Issue 1Full text available:  pdf(5.28 MB)Additional Information: [full citation](#)

11 Gross motion planning—a survey

Yong K. Hwang, Narendra Ahuja

September 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 3Full text available:  pdf(6.40 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Motion planning is one of the most important areas of robotics research. The complexity of the motion-planning problem has hindered the development of practical algorithms. This paper surveys the work on gross-motion planning, including motion planners for point robots, rigid robots, and manipulators in stationary, time-varying, constrained, and movable-object environments. The general issues in motion planning are explained. Recent approaches and their performances are briefly described, and ...

Keywords: collision detection, computational geometry, implementation, motion planning, obstacle avoidance, path planning, spatial representation

12 Balancing performance and flexibility with hardware support for network architectures

Ilija Hadžić, Jonathan M. Smith

November 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 4Full text available: [pdf\(719.03 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The goals of performance and flexibility are often at odds in the design of network systems. The tension is common enough to justify an architectural solution, rather than a set of context-specific solutions. The Programmable Protocol Processing Pipeline (P4) design uses programmable hardware to selectively accelerate protocol processing functions. A set of field-programmable gate arrays (FPGAs) and an associated library of network processing modules implemented in hardware are augmented with so ...

Keywords: FPGA, P4, computer networking, flexibility, hardware, performance, programmable logic devices, programmable networks, protocol processing

13 Secure routing: Secure data transmission in mobile ad hoc networks

Panagiotis Papadimitratos, Zygmunt J. Haas

September 2003 **Proceedings of the 2003 ACM workshop on Wireless security**Full text available: [pdf\(1.18 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The vision of nomadic computing with its ubiquitous access has stimulated much interest in the Mobile Ad Hoc Networking (MANET) technology. However, its proliferation strongly depends on the availability of security provisions, among other factors. In the open, collaborative MANET environment practically any node can maliciously or selfishly disrupt and deny communication of other nodes. In this paper, we present and evaluate the Secure Message Transmission (SMT) protocol, which safeguards the d ...

Keywords: MANET security, multi-path routing, secure message transmission, secure routing, secure routing protocol

14 Single-packet IP traceback

Alex C. Snoeren, Craig Partridge, Luis A. Sanchez, Christine E. Jones, Fabrice Tchakountio, Beverly Schwartz, Stephen T. Kent, W. Timothy Strayer

December 2002 **IEEE/ACM Transactions on Networking (TON)**, Volume 10 Issue 6Full text available: [pdf\(528.41 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The design of the IP protocol makes it difficult to reliably identify the originator of an IP packet. Even in the absence of any deliberate attempt to disguise a packet's origin, widespread packet forwarding techniques such as NAT and encapsulation may obscure the packet's true source. Techniques have been developed to determine the source of large packet flows, but, to date, no system has been presented to track individual packets in an efficient, scalable fashion. We present a hash-based techn ...

Keywords: IP traceback, computer network management, computer network security, denial of service (DoS), network fault diagnosis, wide-area networks (WANs)

15 Power minimization in IC design: principles and applications

Massoud Pedram

January 1996 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 1 Issue 1

Full text available:  pdf(550.02 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Low power has emerged as a principal theme in today's electronics industry. The need for low power has caused a major paradigm shift in which power dissipation is as important as performance and area. This article presents an in-depth survey of CAD methodologies and techniques for designing low power digital CMOS circuits and systems and describes the many issues facing designers at architectural, logical, and physical levels of design abstraction. It reviews some of the techniques and tool ...

Keywords: CMOS circuits, adiabatic circuits, computer-aided design of VLSI, dynamic power dissipation, energy-delay product, gated clocks, layout, low power layout, low power synthesis, lower-power design, power analysis and estimation, power management, power minimization and management, probabilistic analysis, silicon-on-insulator technology, statistical sampling, switched capacitance, switching activity, symbolic simulation, synthesis, system design

16 Special issue: Game-playing programs: theory and practice 

M. A. Bramer

April 1972 **ACM SIGART Bulletin**, Issue 80

Full text available:  pdf(9.23 MB) Additional Information: [full citation](#), [abstract](#)

This collection of articles has been brought together to provide SIGART members with an overview of Artificial Intelligence approaches to constructing game-playing programs. Papers on both theory and practice are included.

17 Measurement: A high-level programming environment for packet trace anonymization and transformation 

Ruoming Pang, Vern Paxson

August 2003 **Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications**

Full text available:  pdf(251.27 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Packet traces of operational Internet traffic are invaluable to network research, but public sharing of such traces is severely limited by the need to first remove all sensitive information. Current trace anonymization technology leaves only the packet headers intact, completely stripping the contents; to our knowledge, there are no publicly available traces of any significant size that contain packet payloads. We describe a new approach to transform and anonymize packet traces. Our tool provide ...

Keywords: anonymization, internet, measurement, network intrusion detection, packet trace, privacy, transformation

18 Rethinking the TCP Nagle algorithm 

J. C. Mogul, G. Minshall

January 2001 **ACM SIGCOMM Computer Communication Review**, Volume 31 Issue 1

Full text available:  pdf(1.65 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Modern TCP implementations include a mechanism, known as the Nagle algorithm, which prevents the unnecessary transmission of a large number of small packets. This algorithm has proved useful in protecting the Internet against excessive packet loads. However, many applications suffer performance problems as a result of the traditional implementation of the Nagle algorithm. An interaction between the Nagle algorithm and TCP's delayed acknowledgement policy can create an especially severe pro ...

19 Secure services: Trust evaluation in ad-hoc networks

George Theodorakopoulos, John S. Baras

October 2004 **Proceedings of the 2004 ACM workshop on Wireless security**Full text available: [pdf\(279.04 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An important concept in network security is trust, interpreted as a relation among entities that participate in various protocols. Trust relations are based on evidence related to the previous interactions of entities within a protocol. In this work, we are focusing on the evaluation process of trust evidence in Ad Hoc Networks. Because of the dynamic nature of Ad Hoc Networks, trust evidence may be uncertain and incomplete. Also, no pre-established infrastructure can be assumed. The process is ...

Keywords: ad-hoc networks, semirings, trust evaluation, trust metric

20 Incomplete path expressions and their disambiguation

Yannis E. Ioannidis, Yezdi Lashkari

May 1994 **ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference on Management of data**, Volume 23 Issue 2Full text available: [pdf\(1.34 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

When we, humans, talk to each other we have no trouble disambiguating what another person means, although our statements are almost never meticulously specified down to very last detail. We "fill in the gaps" using our common-sense knowledge about the world. We present a powerful mechanism that allows users of object-oriented database systems to specify certain types of ad-hoc queries in a manner closer to the way we pose questions to each other. Specifically, the system accepts ...

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IEE CNF IEE Conference Proceeding

1. Bounds on signal delay in RC mesh networks

Chan, P.K.; Schlag, M.D.F.;

Computer-Aided Design of Integrated Circuits and Systems, IEEE Transactions on Volume 8, Issue 6, June 1989 Page(s):581 - 589

Summary: The linear RC delay model is commonly used in timing simulators for MOS. Most simulators only handle tree networks, not arbitrary networks. More precisely, these all networks as if they were trees. Currently.....[AbstractPlus](#) | [Full Text: PDF\(668 KB\)](#) IEEE JNL**2. Relativized cryptography**

Brassard, G.;

Information Theory, IEEE Transactions on Volume 29, Issue 6, Nov 1983 Page(s):877 - 894

Summary: It appears to be very difficult to give a formal definition of computational security for key cryptography. A slightly different notion, called transient-key cryptography, is defined. A natural definition of security against chosen-plaintext attacks is given.[AbstractPlus](#) | [Full Text: PDF\(3176 KB\)](#) IEEE JNL**3. ActiveCast: toward application-friendly active network services**

Bond, M.; Calvert, K.; Griffioen, J.; Mullins, B.; Natarajan, S.; Poutievski, L.; Sehgal, A.; S.; Wen, S.; Zegura, E.; Chae, Y.;

DARPA Active Networks Conference and Exposition, 2002. Proceedings

29-30 May 2002 Page(s):274 - 290

Summary: The next step in the evolution of active networks - one that will support radio access to the network and increased scalability - is to package the power of a programmable network in a set of customizable active services that are easy for application.....[AbstractPlus](#) | [Full Text: PDF\(386 KB\)](#) IEEE CNF

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